



**Supplementary Figure 1.** CD spectra of WT and ER in complexes with *boxB* RNA

Spectra were collected in 10 mM Phosphate at 20 °C. Figure shows the contributions of peptide portion in the complex calculated by subtracting RNA signal from signal for complexes as described previously (Austin et al., *J. Am. Chem. Soc.* **124**, 10966-10967 (2002)). The average numbers of amino acids residues in helical form is 16.4 and 13.8 for wt and ER, respectively.